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Index to Volume 29 1975

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Analytical Abstracts is published by The Chemical Society, Burlington House, London W1V 0BN.

Subscriptions (non-members): The Chemical Society, Publications Sales Office, Blackhorse Road, Letchworth, Herts. SG6 1HN.

AABSAR 29 S1–S133 A1–A44 (1975)
ISSN: 0003–2689

Analytical Abstracts

Published by
The Chemical Society

Volume 29 1975

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Printed by Heffers Printers Limited Cambridge England

JOURNALS

Abbreviations of the names of journals as used in the abstracts are given in the following list, which does not include some journals that contain only an occasional analytical paper. Also omitted are a number of Russian journals from which translated abstracts have been published through the medium of *Referativnyi Zhurnal*.

The abbreviations, in italics, after the full names of the journals refer to the languages in which the journals are published.

Acta chem. scand.	Acta Chemica Scandinavica [*Eng.*]
Acta chim. hung.	Acta Chimica Academiae Scientiarum Hungaricae [*Eng., Ger.*]
Acta pharm. hung.	Acta Pharmaceutica Hungarica [*Hung.*]
Acta pharm. jugosl.	Acta Pharmaceutica Jugoslavica [*Serbo-Croat*]
Acta pharm. suec.	Acta Pharmaceutica Suecica [*Eng.*]
Acta Pol. pharm.	Acta Poloniae Pharmaceutica [*Pol.*]
Agric. biol. Chem.	Agricultural and Biological Chemistry [Tokyo] [*Eng.*]
AMDEL Bull.	Bulletin of the Australian Mineral Development Laboratories [*Eng.*]
Am. ind. Hyg. Ass. J.	American Industrial Hygiene Association Journal [*Eng.*]
Analusis	Analusis (*formerly* Chimie Analytique *and* Methodes Physiques d'Analyse) [*Fr.*]
Analyst, Lond.	Analyst [*Eng.*]
Analyt. Biochem.	Analytical Biochemistry [*Eng.*]
Analyt. Chem.	Analytical Chemistry [*Eng.*]
Analytica chim. Acta	Analytica Chimica Acta [*Eng., Fr., Ger.*]
Analyt. Lett.	Analytical Letters [*Eng., Fr., Ger.*]
An. Bromat.	Anales de Bromatologia [*Span.*]
Angew. Chem., int. Edn	Angewandte Chemie, International Edition [*Eng.*]
Angew. makromolek. Chem.	Angewandte makromolekulare Chemie [*Eng., Ger.*]
Annali Ist. sup. Sanita	Annali dell'Istituto Superiore di Sanita [*Eng., Fr., Ital.*]
Annls Falsif. Expert. chim.	Annales des Falsifications et de l'Expertise Chimique [*Fr.*]
Annls pharm. fr.	Annales Pharmaceutiques Francaises [*Fr.*]
An. Quim.	Anales de Quimica de la Real Sociedad Espanola de Fisica y Quimica [*Span.*]
Appl. Optics	Applied Optics [*Eng.*]
Appl. Spectrosc.	Applied Spectroscopy [*Eng.*]
Arch. EisenhuettWes.	Archiv fuer das Eisenhuettenwesen [*Ger.*]
Arch. Pharm. Weinheim.	Archiv der Pharmazie (und Berichte der Deutschen pharmazeutischen Gesellschaft) [*Ger.*]
Armyan. khim. Zh.	Armyanskii Khimicheskii Zhurnal [*Russ.*]
Arzneimittel-Forsch.	Arzneimittel-Forschung [*Ger.*]
Atmos. Environ.	Atmospheric Environment [*Eng.*]
Aust. J. Chem.	Australian Journal of Chemistry [*Eng.*]
Azerb. khim. Zh.	Azerbaidzhanskii Khimicheskii Zhurnal [*Russ.*]
Beitr. Tabakforsch.	Beitraege zur Tabakforschung [*Eng., Ger.*]
Biochem. J.	Biochemical Journal [*Eng.*]
Biochem. Med.	Biochemical Medicine [*Eng.*]
Biochim. biophys. Acta	Biochimica et Biophysica Acta [*Eng.*]
Biochimie	Biochimie (*formerly* Bulletin de la Societe de Chimie Biologique) [*Eng., Fr.*]
Biomed. Mass Spectrom.	Biomedical Mass Spectrometry [*Eng.*]
Boll. Soc. ital. Biol. sper.	Bollettino della Societa Italiana di Biologia Sperimentale [*Ital.*]
Brauwissenschaft	Brauwissenschaft [*Ger.*]
Br. med. J.	British Medical Journal [*Eng.*]
Br. Steel Corp. open Rep.	British Steel Corporation Open Report [*Eng.*]
Bull. chem. Soc. Japan	Bulletin of the Chemical Society of Japan [*Eng.*]
Bull. environ. Contam. Toxic.	Bulletin of Environmental Contamination and Toxicology [*Eng.*]
Bull. Narcot.	Bulletin on Narcotics [*Eng.*]
Bull. Soc. chim. Fr.	Bulletin de la Societe Chimique de France [*Fr.*]
Bunseki Kagaku [Japan Analyst]	Bunseki Kagaku [*Jap.*]
Can. J. Biochem.	Canadian Journal of Biochemistry [*Eng., Fr.*]
Can. J. Chem.	Canadian Journal of Chemistry [*Eng., Fr.*]
Can. J. pharm. Sci.	Canadian Journal of Pharmaceutical Science [*Eng.*]
Can. J. Spectrosc.	Canadian Journal of Spectroscopy [*Eng., Fr.*]
Cereal Chem.	Cereal Chemistry [*Eng.*]
Chemia analit.	Chemia Analityczna [*Eng., Fr., Ger., Pol., Russ.*]
Chem. Scr.	Chemica Scripta [*Eng.*]
Chemicke Listy	Chemicke Listy [*Czech*]
Chemicke Zvesti	Chemicke Zvesti [*Eng., Fr., Ger., Russ.*]
Chemicky Prum.	Chemicky Prumysl [*Czech*]
Chemiker Ztg	Chemiker Zeitung [*Ger.*]
Chemistry, Taipei	Chemistry, Taipei [*Chin.*]
Chem. pharm. Bull., Tokyo	Chemical & Pharmaceutical Bulletin [*Eng., Ger.*]

Chem. Tech., Lpz.	Chemische Technik [*Ger.*]
Chemy Br.	Chemistry in Britain [*Eng.*]
Chemy Ind.	Chemistry and Industry [*Eng.*]
Chimia	Chimia [*Eng., Fr., Ger.*]
Chromatographia	Chromatographia [*Eng., Fr., Ger.*]
Chromat. Rev.	Chromatographic Reviews [*Eng.*]
Clin. Chem.	Clinical Chemistry [*Eng.*]
Clinica chim. Acta	Clinica Chimica Acta [*Eng., Fr., Ger.*]
Colln Czech. chem. Commun.	Collection of Czechoslovak Chemical Communications [*Eng., Fr., Ger., Russ.*]
C. r. Acad. bulg. Sci.	Comptes Rendus de l'Academie Bulgare des Sciences [*Eng., Fr., Ger.*]
CRC crit. Rev. analyt. Chem.	CRC Critical Reviews of Analytical Chemistry [*Eng.*]
C. r. hebd. Seanc. Acad. Sci., Paris	Comptes Rendus Hebdomadaires des Seances de l'Academie des Sciences [*Fr.*]
Croat. chem. Acta	Croatica Chemica Acta [*Eng., Ger.*]
Cslka Farm.	Ceskoslovenska Farmacie [*Czech, Slovak*]
Curr. Sci.	Current Science [*Eng.*]
CZ Chemie-Tech.	CZ Chemie-Technik [*Ger.*]
Dokl. Akad. Nauk SSSR	Doklady Akademii Nauk SSSR [*Russ.*]
Dokl. Akad. Nauk tadzhik. SSR	Doklady Akademii Nauk Tadzhikskoi SSR [*Russ.*]
Dokl. Akad. Nauk uzbek. SSR	Doklady Akademii Nauk Uzbekskoi SSR [*Russ.*]
Dt. ApothZtg.	Deutsche Apotheker-Zeitung [*Ger.*]
Dt. LebensmittRdsch.	Deutsche Lebensmittel-Rundschau [*Ger.*]
Eczacilik Bult.	Eczacilik Bulteni [*Turk.*]
Environ. Sci. Technol.	Environmental Science & Technology [*Eng.*]
Erdoel Kohle Erdgas Petrochem. Brennst.-Chem.	Erdoel und Koble, Erdgas, Petrochemie vereinigt mit Brennstoff-Chemie [*Ger.*]
Experientia	Experientia [*Eng., Ger.*]
Farmaceuticky Obz.	Farmaceuticky Obzor [*Czech, Slovak*]
Farmacja pol.	Farmacja Polska [*Pol.*]
Farmaco, Ed. prat.	Farmaco, Edizione Pratica [*Fr., Ital.*]
Faserforsch. TextTech.—Z. Polymforsch.	Faserforschung und Textiltechnik—Zeitschrift fuer Polymerforschung [*Ger.*]
Fette Seifen AnstrMittel	Fette, Seifen, Anstrichmittel [*Ger.*]
Finn. Chem. Lett.	Finnish Chemical Letters (*formerly* Acta Chemica Fennica, B) [*Eng.*]
Fleischwirtschaft	Fleischwirtschaft [*Ger.*]
Geochim. cosmochim. Acta	Geochimica et Cosmochimica Acta [*Eng.*]
G-I-T Fachz. Lab.	Glas-Instrumenten-Technik. Fachzeitschrift fuer das Laboratorium [*Eng., Ger.*]
Gordian	Gordian [*Ger.*]
Helv. chim. Acta	Helvetica Chimica Acta [*Fr., Ger.*]
Herba pol.	Herba Polonica [*Pol.*]
Hoppe-Seyler's Z. physiol. Chem.	Hoppe-Seyler's Zeitschrift fuer physiologische Chemie [*Ger.*]
Huaxue Tongbao [Chemy Bull.]	Huaxue Tongbao [*Chin.*]
Huin. Listy	Hutnicke Listy [*Czech*]
Indian J. appl. Chem.	Indian Journal of Applied Chemistry [*Eng.*]
Indian J. Chem.	Indian Journal of Chemistry [*Eng.*]
Indian J. Pharm.	Indian Journal of Pharmacy [*Eng.*]
Indian J. Technol.	Indian Journal of Technology [*Eng.*]
Inds aliment. agric.	Industries Alimentaires et Agricoles [*Fr.*]
Industrie agr.	Industrie Agrarie [*Ital.*]
Int. J. appl. Radiat. Isotopes	International Journal of Applied Radiation and Isotpes [*Eng., Fr., Ger.*]
Int. Sug. J.	International Sugar Journal [*Eng.*]
Isotopenpraxis	Isotopenpraxis [*Ger.*]
Israel J. Chem.	Israel Journal of Chemistry [*Eng.*]
Izv. Akad. Nauk beloruss. SSR, Ser. khim. Nauk	Izvestiya Akademii Nauk Belorusskoi SSR, Seriya Khimicheskikh Nauk [*Russ.*]
Izv. Akad. Nauk kazakh. SSR, Ser. Khim.	Izvestiya Akademii Nauk Kazakhskoi SSR, Seriya Khimicheskaya [*Russ.*]
Izv. Akad. Nauk latv. SSR, Ser. khim.	Izvestiya Akademii Nauk Latviiskoi SSR, Seriya Khimicheskaya [*Russ.*]
Izv. Akad. Nauk SSSR, Ser. khim.	Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya [*Russ.*]
Izv. sib. Otdel. Akad. Nauk SSSR	Izvestiya Sibirskogo Otdeleniya Akademii Nauk SSSR [*Russ.*]
Izv. tomsk. politekh. Inst.	Izvestiya Tomskogo Politekhnicheskogo Instituta imeni S. M. Kirova [*Russ.*]
Izv. vyssh. ucheb. Zaved., Khim. khim. Tekhnol.	Izvestiya Vysshikh Uchebnykh Zavedenii, Khimiya i Khimicheskaya Tekhnologiya [*Russ.*]
J. agric. Fd Chem.	Journal of Agricultural and Food Chemistry [*Eng.*]
J. Air Pollut. Control Ass.	Journal of the Air Pollution Control Association [*Eng.*]
J. Am. Oil Chem. Soc.	Journal of the American Oil Chemists' Society [*Eng.*]
Japan Analyst	Japan Analyst [*Jap.*]
J. appl. Chem. Biotechnol.	Journal of Applied Chemistry and Biotechnology [*Eng.*]
J. appl. Polym. Sci.	Journal of Applied Polymer Science [*Eng.*]

J. Ass. off. analyt. Chem.	Journal of the Association of Official Analytical Chemists [*Eng.*]
J. Ass. publ. Analysts	Journal of the Association of Public Analysts [*Eng.*]
J. chem. Soc., Dalton Trans.	Journal of the Chemical Society, Dalton Transactions [*Eng.*]
J. chem. Soc., Faraday Trans. I	Journal of the Chemical Society, Faraday Transactions I [*Eng.*]
J. chem. Soc., Perkin Trans. I	Journal of the Chemical Society, Perkin Transactions I [*Eng.*]
J. chem. Soc., Perkin Trans. II	Journal of the Chemical Society, Perkin Transactions II [*Eng.*]
J. Chin. chem. Soc., Taipei	Journal of the Chinese Chemical Society [Taipei] [*Eng.*]
J. Chromat.	Journal of Chromatography [*Eng., Fr., Ger.*]
J. chromat. Sci.	Journal of Chromatographic Science [*Eng.*]
J. Dairy Sci.	Journal of Dairy Science [*Eng.*]
J. electroanalyt. Chem.	Journal of Electroanalytical Chemistry and Interfacial Electrochemistry [*Eng., Fr., Ger.*]
J. electrochem. Soc.	Journal of the Electrochemical Society [New York] [*Eng.*]
J. forens. Sci. Soc.	Journal of the Forensic Science Society, U.K. [*Eng.*]
J. Indian chem. Soc.	Journal of the Indian Chemical Society [*Eng.*]
J. inorg. nucl. Chem.	Journal of Inorganic & Nuclear Chemistry [*Eng.*]
J. Inst. Brew.	Journal of the Institute of Brewing [*Eng.*]
J. Lipid Res.	Journal of Lipid Research [*Eng.*]
J. Paint Technol.	Journal of Paint Technology [*Eng.*]
J. Pharm. Belg.	Journal de Pharmacie de Belgique [*Fr.*]
J. Pharm. Pharmac.	Journal of Pharmacy and Pharmacology [*Eng.*]
J. pharm. Sci.	Journal of Pharmaceutical Sciences [*Eng.*]
J. Phys. E, scient. Instrum.	Journal of Physics E, Scientific Instruments [*Eng., Fr., Ger.*]
J. radioanalyt. Chem.	Journal of Radioanalytical Chemistry [*Eng., Fr., Ger.*]
J. Res. natn. Bur. Stand.	Journal of Research of the National Bureau of Standards [*Eng.*]
J. Sci. Fd Agric.	Journal of the Science of Food and Agriculture [*Eng.*]
J. Steroid Biochem.	Journal of Steroid Biochemistry [*Eng.*]
J. Wat. Pollut. Control Fed.	Journal of the Water Pollution Control Federation [*Eng.*]
Kautschuk Gummi Kunststoffe	Kautschuk und Gummi, Kunststoffe [*Ger.*]
Klin. Wschr.	Klinische Wochenschrift [*Ger.*]
Kunststoffe	Kunststoffe [*Ger.*]
Lab. Pract.	Laboratory Practice [*Eng.*]
Lancet	Lancet [*Eng.*]
Landw. Forsch.	Landwirtschaftliche Forschung [*Ger.*]
Lipids	Lipids [*Eng.*]
Magy. Kem. Foly.	Magyar Kemiai Folyoirat [*Hung.*]
Magy. Kem. Lap.	Magyar Kemikusok Lapja [*Hung.*]
Medicine Sci. Law	Medicine, Science and the Law [*Eng.*]
Med. Lab. Technol.	Medical Laboratory Technology [*Eng.*]
Metallurgia Metal Form.	Metallurgia and Metal Forming (*formerly* Metallurgia, Manchester) [*Eng.*]
Microchem. J.	Microchemical Journal [*Eng.*]
Mikrochim. Acta	Mikrochimica Acta [*Eng., Fr., Ger.*]
Mitt. Geb. Lebensmittelunters. u. Hyg.	Mitteilungen aus dem Gebiete der Lebensmitteluntersuchung und Hygiene [*Fr., Ger.*]
Mschr. Brau.	Monatsschrift fuer Brauerei [*Ger.*]
Nahrung	Nahrung [*Eng., Ger., Russ.*]
Nature, Lond.	Nature [*Eng.*]
Naturwissenschaften	Naturwissenschaften [*Eng., Ger.*]
Nauch. Trudy tashkent. Univ.	Nauchnye Trudy Tashkentskogo Universitet [*Russ.*]
Nucl. Instrum. Meth.	Nuclear Instruments and Methods [*Eng.*]
Periodica polytech. chem. Engng	Periodica Polytechnica, Chemical Engineering [*Eng., Ger.*]
Pestic. Sci.	Pesticide Science [*Eng.*]
Pharm. Acta Helv.	Pharmaceutica Acta Helvetiae [*Eng., Fr., Ger.*]
Pharmazie	Pharmazie [*Eng., Ger.*]
Pharm. J.	Pharmaceutical Journal [*Eng.*]
Pharm. Weekbl.	Pharmaceutisch Weekblad voor Nederland [*Dutch, Eng., Ger.*]
Plaste Kautsch.	Plaste und Kautschuk [*Ger.*]
Pol. J. Pharmac. Pharm.	Polish Journal of Pharmacology and Pharmacy (*formerly* Dissertationes Pharmaceuticae et Pharmacologicae) [*Eng.*]
Powder Technol.	Powder Technology [*Eng.*]
Prof. Pap. U.S. geol. Surv.	Professional Papers. United States Geological Survey [*Eng.*]
Prostaglandins	Prostaglandins [*Eng.*]
Pure appl. Chem.	Pure and Applied Chemistry [*Eng., Fr., Ger.*]
Pyrethrum Post	Pyrethrum Post [*Eng., Fr.*]
Quim. analit.	Quimica Analitica (formerly Informacion de Quimica analitica, Pura y Aplicada a la Industria) [*Span.*]
Radiochem. radioanalyt. Lett.	Radiochemical and Radioanalytical Letters [*Eng., Fr., Ger.*]
Rapp. CEA	Rapport. Commissariat a l'Energie Atomique [*Fr.*]
Rep. atom. Energy Commn U.S.	Report. Atomic Energy Commission, United States [*Eng.*]
Rep. Invest. U.S. Bur. Mines	Report of Investigations. United States Bureau of Mines [*Eng.*]
Rep. natn. Inst. Metall.	Report. National Institute for Metallurgy [*Eng.*]
Rep. U.K. atom. Energy Auth.	Report. United Kingdom Atomic Energy Authority [*Eng.*]

Rev. scient. Instrum.	Review of Scientific Instruments [*Eng.*]
Revta Asoc. bioquim. argent	Revista de la Asociacion Bioquimica Argentina [*Span.*]
Revta Chim.	Revista de Chimie [*Rom.*]
Revue roum. Chim.	Revue Roumaine de Chimie [*Eng., Fr., Ger., Russ.*]
Riv. ital. Sostanze grasse	Rivista Italiana delle Sostanze Grasse [*Ital.*]
Roczn. Chem.	Roczniki Chemii [*Eng., Fr., Ger., Pol.*]
Roczn. panst. Zakl. Hig.	Roczniki Panstwowego Zakladu Higieny [*Pol.*]
Scand. J. clin. Lab. Invest.	Scandinavian Journal of Clinical & Laboratory Investigation [*Eng.*]
Science, N.Y.	Science [*Eng.*]
Scientia pharm.	Scientia Pharmaceutica [*Ger.*]
Sepn Purif. Meth.	Separation and Purification Methods [*Eng.*]
Sepn Sci.	Separation Science [*Eng.*]
Soviet Radiochem.	Soviet Radiochemistry [*English translation of* Radiokhimiya]
Spectrochim. Acta, A	Spectrochimica Acta, Part A [*Eng., Fr., Ger.*]
Spectrosc. Lett.	Spectroscopy Letters [*Eng.*]
Staerke	Staerke [*Eng., Ger.*]
Staub, Reinhalt. Luft	Staub, Reinhaltung der Luft [*Ger.*]
Steroids	Steroids [*Eng.*]
Studia Univ. Babes-Bolyai, Ser. Chem.	Studia Universitatis Babes-Bolyai, Series Chemia [*Rom.*]
Talanta	Talanta [*Eng., Fr., Ger.*]
TAPPI	TAPPI [Journal of the Technical Association of the Pulp and and Paper Industry] [*Eng.*]
Trav. Soc. Pharm. Montpellier	Travaux de la Societe de Pharmacie de Montpellier [*Fr.*]
Trib. CEBEDEAU	Tribune de CEBEDEAU [Centre Belge d'Etude et de Documentation des Eaux] [*Fr.*]
Trudy Khim. khim. Tekhnol. [Gor'kii]	Trudy po Khimii i Khimicheskoi Tekhnologii [*Russ.*]
Trudy mosk. khim.-tekhnol. Inst.	Trudy Moskovskogo Khimiko-Tekhnologicheskogo Instituta imeni D. I. Mendeleeva [*Russ.*]
Uchen. Zap. perm. gos. Univ.	Uchenye Zapiski Permskogo Gosudarstvennogo Universiteta imeni M. Gor'kogo [*Russ.*]
Ukr. khim. Zh.	Ukrains'kii Khimicheskii Zhurnal [*Russ.*]
Uzbek. khim. Zh.	Uzbekskii Khimicheskii Zhurnal [*Russ.*]
Vest. leningr. gos. Univ., Fiz., Khim.	Vestnik Leningradskogo Gosudarstvennogo Universiteta, Fizika, Khimiya [*Russ.*]
Vest. mosk. gos. Univ., Ser. Khim.	Vestnik Moskovskogo Gosudarstvennogo Universiteta, Seriya Khimiya [*Russ.*]
Wat. Res.	Water Research [*Eng.*]
Wat. Sewage Wks	Water & Sewage Works [*Eng.*]
X-Ray Spectrom.	X-Ray Spectrometry [*Eng., Fr., Ger.*]
Z. analyt. Chem.	Zeitschrift fuer analytische Chemie [*Eng., Ger.*]
Z. anorg. allg Chem.	Zeitschrift fuer anorganische und allgemeine Chemie [*Ger.*]
Zav. Lab.	Zavodskaya Laboratoriya [*Russ.*]
Z. Chemie, Lpz.	Zeitschrift fuer Chemie [*Ger.*]
Zentbl. Pharm., Pharmakother u. Lab.-diagnostik	Zentralblatt fuer Pharmazie, Pharmakotherapie und Laboratoriums-diagnostik [*Ger.*]
Zh. analit. Khim.	Zhurnal Analiticheskoi Khimii [*Russ.*]
Zh. prikl. Khim., Leningr.	Zhurnal Prikladnoi Khimii [*Russ.*]
Zh. prikl. Spektrosk.	Zhurnal Prikladnoi Spektroskopii [*Russ.*]
Z. klin. Chem. klin. Biochem.	Zeitschrift fuer klinische Chemie und klinische Biochemie [*Eng., Ger.*]
Z. Lebensmittelunters. u. -Forsch.	Zeitschrift fuer Lebensmittel-Untersuchung und -Forschung [*Eng., Ger.*]

ACKNOWLEDGEMENTS

The organisations publishing the following journals, or their own abstracts, are thanked for allowing reproduction of some abstracts.

Abstract Bulletin of the Institute of Paper Chemistry
Chemical Abstracts
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Fuel Abstracts and Current Titles
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Journal of the Institute of Brewing
Lead Abstracts
Mineralogical Abstracts
Nuclear Science Abstracts
Nutrition Abstracts and Reviews
RAPRA Abstracts
Referativnyi Zhurnal, Khimiya, Section 19GD
World Surface Coatings Abstracts
World Textile Abstracts
Zinc Abstracts

ABBREVIATIONS AND SYMBOLS

Certain abbreviations in everyday use are not included in the following list. When any doubt might arise from the use of an abbreviation or symbol the word is printed in full.

adenosine 5′-monophosphate	AMP
adenosine 5′-pyrophosphate	ADP
adenosine 5′-triphosphate	ATP
alternating current	a.c.
approximate, -ly	approx.
aqueous	aq.
atomic-absorption spectrophotometr-y, -ic	a.a.s.
atomic-emission spectroscop-y, -ic	a.e.s.
atomic-fluorescence spectrometr-y, -ic	a.f.s.
atomic number	Z
attenuated total reflectance	a.t.r.
biochemical oxygen demand	BOD
boiling-point	b.p.
chemical oxygen demand	COD
coefficient	coeff.
concentrated	conc.
concentration	concn.
crystalline / crystallised	cryst.
current density	c.d.
density, relative	d
deoxyribonucleic acid	DNA
diameter, inside	i.d.
diameter, outside	o.d.
differential thermal analysis	d.t.a.
dilute (as adjective)	dil.
5-dimethylaminonaphthalene-1-sulphonyl	dansyl
direct current	d.c.
dissociation constant	K
electron spin (or paramagnetic) resonance	e.s.r.
ethylenediaminetetra-acetate	edta
gas chromatograph-y, -ic	g.c.
gas - liquid chromatograph-y, -ic	g.l.c.
gas - solid chromatograph-y, -ic	g.s.c.
half-wave potential	$E_{\frac{1}{2}}$
height equivalent to a theoretical plate	h.e.t.p.
high-performance liquid chromatography	h.p.l.c.
infra-red	i.r.
insoluble	insol.
ionic strength	I
mass spectrometr-y, -ic	m.s.
maxim-um, -a	max.
molar extinction coefficient	ϵ
molecular weight	mol. wt.
neutron-activation analysis	n.a.a.
nicotinamide–adenine dinucleotide (oxidised form)	NAD^+
nicotinamide–adenine dinucleotide (reduced form)	NADH
normal calomel electrode	n.c.e.
normal hydrogen electrode	n.h.e.
nuclear magnetic resonance	n.m.r.
optical rotation	α
optical rotatory dispersion	o.r.d.
partial pressure (as in, *e.g.*, $p CO_2$)	p
poly(tetrafluoroethylene)	PTFE
potential difference	p.d.
precipitate (as a noun)	ppt.
precipitated	pptd.
precipitation	pptn.
preparation	prep.
recrystallised	recryst.
refractive index	n_λ^t
relative band speed	R_F
relative humidity	r.h.
ribonucleic acid	RNA
saturated (as adjective)	satd.
saturated calomel electrode	s.c.e.
soluble	sol.
solution	soln.
specific rotation	$[\alpha]_\lambda^t$
standard temp. and pressure	s.t.p.
thin-layer chromatograph-y, -ic	t.l.c.
ultra-violet	u.v.
volume	vol.
wavelength	λ
weight	wt.

UNITS OF MEASUREMENT

As well as those listed below, other symbols given in the Systeme International d'Unites (SI) may be used where appropriate. The symbols 'mμ' (for nm) and 'γ' (for μg) are not used.

ampere	A	molar (concentration)	M
ångström	Å	neutrons per square centimetre per second	$n\ cm^{-2}\ s^{-1}$
atmosphere	atm	newton	N
atomic mass unit	a.m.u.	normal (concentration)	N
counts per minute	c.p.m.	ohm	Ω
curie	Ci	parts per million	p.p.m.
disintegrations per minute	d.p.m.	pascal	Pa
electron-volt	eV	per cent. (vol. in vol.)	%(v/v)
equivalent	equiv.	per cent. (wt. in vol.)	%(w/v)
farad	F	per cent. (wt. in wt.)	%(w/w)
gauss	G	pounds per square inch	p.s.i.
gram	g	revolutions per minute	r.p.m.
gram-molecule	mol	roentgen	R
hertz	Hz	second (time)	s
hour	h	siemens	S
international unit	i.u.	tesla	T
joule	J	tonne (10^6 g)	t
kelvin*	K	unit of pressure (mm Hg)	Torr
kilogram	kg	volt	V
litre	l	watt	W
metre	m	weber	Wb
minute	min		

* Temperatures given in degrees are on the Celsius scale unless otherwise indicated.

The following prefixes may be used in conjunction with the symbols—

Fraction	*Prefix*	*Symbol*	*Multiple*	*Prefix*	*Symbol*
10^{-1}	deci	d	10	deka	da
10^{-2}	centi	c	10^2	hecto	h
10^{-3}	milli	m	10^3	kilo	k
10^{-6}	micro	μ	10^6	mega	M
10^{-9}	nano	n	10^9	giga	G
10^{-12}	pico	p	10^{12}	tera	T
10^{-15}	femto	f			
10^{-18}	atto	a			

Abbreviations of journal titles used in the abstracts are, in general, those of the 'World List of Scientific Periodicals' (4th Edn, 1964, Butterworths, London), but all diacritical marks are omitted and the German ä, ö and ü and the Scandinavian ø (or ö) are transliterated as ae, oe, ue and oe, respectively. The language in which an original paper is written is English unless otherwise specified.

The chemical nomenclature used in the abstracts may differ from that in the original articles and is that recommended by The International Union of Pure and Applied Chemistry ('Nomenclature of Organic Chemistry', Sections A and B, 3rd Edn, and Section C, 2nd Edn, Butterworths, London, 1971; 'Nomenclature of Inorganic Chemistry', Butterworths, London, 1971).

When known, the Colour Index (C.I.) designations of dyes are generally included. The names given to enzymes are those recommended by the International Union of Pure and Applied Chemistry and the International Union of Biochemistry ('Enzyme Nomenclature', Elsevier Scientific Publishing Co., Amsterdam, 1973). When possible, drugs are specified by their official B.P. or B.P.C. names, or by the Approved Names recommended by the British Pharmacopoeia Commission (8 Bulstrode Street, London, W1M 5FT). The principal Pharmacopoeias are denoted by, *e.g.*, B.P., U.S.P. or Eur.P., together with the identifying roman numeral or year. Pesticides are named in accordance with the British Standard 1831 : 1969, 'Recommended Common Names for Pesticides' (British Standards Institution, 2 Park Street, London, W1A 2BS).

System of Numbering Abstracts

The abstract designation consists of three parts (left to right):

(1) *Issue Number.* A number 1 to 6 corresponding to the monthly issue number in a given volume. (There are two volumes of six separate monthly issues each year.)

(2) *Section Letter.* Each subject section is indicated by a letter of the alphabet A to J (the letter I is avoided to prevent possible confusion).

(3) *Abstract Number.* An individual number of the abstract within its section. The numbers start with 1 in each section of each issue and run consecutively throughout the section.

ERRATA

Some errata subsequently published in the journals abstracted are included in the following list. When the initials of given names in the Author Index and in the abstracts do not agree, the Index should be assumed to be correct.

VOL. 25, 1973

Abstract

No.	*Line*	
1936	6	*for* **24** *read* **26**

VOL. 26, 1974

Abstract

No.	*Line*	
3339	2	*insert* **III.** *after* **Derivatograph.**

VOL. 27, 1974

Index, p. 136, column 1, line 19, *for* **Acetazolmide,** *read* **Acetazolamide,**

Abstract

No.	*Line*	
2407	68	*for* Elkady, A. A. *read* El Kady, A. A.

The appropriate modifications should be made to the Author Index for Vol. 27.

VOL. 28, 1975

Index, p. S125, column 2, lines 1 and 2, *these lines should read* **Urine,** determination of 4-hydroxy-3-methoxyphenylacetic acid in

Index, p. A20, column 2, *for* Khamrakulov, K., 1B154 *read* Khamrakulov, T. K., 1B125, 1B154

Index, p. A20, column 2, *delete entry for* Kharmakulov, T. K.

Abstract

No.	*Line*	
3D49	1	*insert* **Application of reaction chromatography in chemical-toxicological analysis. IX.** *before* **Possible**
5J41	2	*for* Vitenber, A. G.; *read* Vitenberg, A. G.;
6B168	1	*for* **VIII.** *read* **IX.**
6B168	21	*for* VII *read* VIII

VOL. 29, 1975

Abstract

No.	*Line*	
1B155	8	*for* pyrogallol red *read* bromopyrogallol red
1E7	4	*for* Sotolongo, M. Alvarez; *read* Alvarez Sotolongo, M.;
1F25	3	*for* Gazzini, G., *read* Gazzani, G.
1F50	3	*for* Kroller, E. *read* Kroeller, E.
1F68	2,3	*for* Zanobibi, A. *read* Zanobini, A.
1J26	2	*after* **chromatography.** *insert* **I. A nematic liquid crystal.**
2A4	8, 9	*for* King, Judson C. *read* King, C. Judson
2B145	9	*after* (2 ml) *insert* ,0·025M-$KBrO_3$ (2 ml)
2B186	2	*for* **iron(II)** *read* **iron(III)**
2D87	4	*for* Kinoshita, Toshi; *read* Kinoshita, Toshio;
2E5	1	*insert* **of** before **drugs.**
2E17	16	*this line should read* phthalate buffer soln. of pH 5·0, and
2J50	15	*for* 1J49 *read* 2J51
2J118	1	*for* **III-** *read* **III.**
3B64	20	*for* Ti^{III} *read* Tl^{III}
4B92	4	*for* Tishenenko, M. A. *read* Tishchenko, M. A.
4D81	7	*for* 1^{-1} *read* in 1l
4D167	2	*for* De Rooij, R. E.; *read* Rooij, R. E. de;
4H35	2,3	*for* Ahraff, Martin; *read* Ahnoff, Martin;
5B222	24	*this line should read* adding Na_2edta. The error is <1·1%.
6D133	3	*for* Williams, Noel C. *read* Williams, C. Noel
6F36	13	*for* a.l.c. *read* g.l.c.
6G18	3	*for* Hagemann, Lynn *read* Hageman, Lynn

SUBJECT INDEX

Organic compounds are indexed under the parent compounds, except under the headings **Indicators** and **Reagents, organic,** and the lists of reagents under specific elements. Esters and salts of organic acids are indexed under the names of their acid constituents. References to **Cosmetics, Dyes, Enzymes,** miscellaneous **Optical devices** and minor items of **Laboratory apparatus** will be found under these headings. Patents are indicated by *P*, and books and conference papers (titles only) by *B* and *C* respectively, following the abstract number.

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acridine orange. *Solvent Orange* 15
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Alizarin red S. *Mordant Red* 3
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Brilliant green. *Basic Green* 1
butylrhodamine B. *Basic Violet* 10 *butyl ester*
Capri blue. *No.* 51015
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Chrome Azurol S. *Mordant Blue* 29
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eosin. *Acid Red* 87
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Eriochrome cyanine R. *Mordant Blue* 3
ethylrhodamine B. *Basic Violet* 10 *ethyl ester*
F D & C Blue No. 2. *Food Blue* 1
F D & C Yellow No. 6. *Food Yellow* 3
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malachite green. *Basic Green* 4
metanil yellow. *Acid Yellow* 36
methyl green. *Basic Blue* 20
methyl red. *Acid Red* 2
methyl violet. *Basic Violet* 1
methylene blue. *Basic Blue* 9
methylene green. *Basic Green* 5
Nile blue A. *Basic Blue* 12
Rhodamine B. *Basic Violet* 10
Rhodamine 3B. *Basic Violet* 11
Rhodamine G. *Basic Red* 8
Rhodamine 6G. *Basic Red* 1
Solochrome Red B. *Mordant Red* 9
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Acid Blue 90, as reagent for proteins, 6D110
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6-cyclohexyl-1-hydroxy-4-methyl-2-pyridone - ethanolamine adduct, 4B191
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5-diethylamino-2-(2-pyridylazo)phenol deriv., 5A11
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2,4-dihydroxybenzophenone, 3B36
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6,7-dihydroxy-2,4-diphenylbenzopyrilium chloride, 5B93
4,5-dihydroxy-3-[8-hydroxy-7-(8-hydroxy-3,6-disulpho-1-naphthylazo)-3,6-disulpho-1-naphthylazo]naphthalene-2,7-disulphonic acid hexa-Na salt, 3H2
(3,4-dihydroxy-8-sulphoanthraquinon-2-yl)-methyliminodiacetic acid, 5A12
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diphenylthiovioluric (5-hydroxyimino-1,3-diphenyl-2-thiobarbituric) acid, 3B164
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di-(2-pyridyl) ketone 2-pyridylhydrazone, 5B215
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dithiotrihydroxymethylaminomethane {[tris-(hydroxymethyl)methyl]dithiocarbamic acid} K salt, 1B53, 5B11, 5B144
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ethylenebis(thioglycollic) acid {2,2′-[ethylenebis-(thio)]bis(acetic acid)}, 6B6, 6B135
αα′-ethylenedi-iminodi(toluene-2-thiol), 2B202
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5′-ethylresacetophenone oxime, 6B24
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H-acid (4-amino-5-hydroxynaphthalene-2,7-disulphonic acid), 3H8
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4-hydroxy-3,5-dimethoxybenzaldazine, 5H57, 6H30
8-hydroxy-5,7-dinitroquinoline, 5B110
1-hydroxy-1,3-diphenylthiourea, 5B34, 5B237
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8-hydroxy-7-(2-hydroxy-3,5-dinitrophenylazo)-naphthalene-1,6-disulphonic acid, 3H26
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5-hydroxyimino-1,3-diphenyl-2-thiobarbituric acid, 3B164
5-hydroxyimino-2-thiobarbituric acid, 3B164
2-hydroxy-5-methoxybenzaldoxime, 4B25
1-hydroxynaphthalene-2-carbodithioic acid, 3B166
3-hydroxy-2-naphthoic acid, 6B36
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5-hydroxy-4-nitrosobenzo-2,1,3-thiadiazole, 1B186
4-hydroxy-3-nitrosonaphthalene-1-sulphonic acid, 4B34
3-(2-hydroxy-5-nitro-3-sulphophenylazo)-6-(3-sulphophenylazo)chromotropic acid, 1B167
1-(2-hydroxyphenylazo)-3-(2,4-xylylcarbamoyl)-2-naphthol, 2B46
8-hydroxyquinaldaldehyde 8-quinolylhydrazone, 3B26
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o-hydroxyquinolphthalein, 5B217
4-hydroxy-3-(salicylideneamino)benzenesulphonic acid, 1B47

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MAADMF-3,4 {2-[3-(1-methyl-2-piperidyl)-2-pyridylazo]-3,4-xylenol}, 4B156
magneson IREA [5-chloro-2-hydroxy-3-(2-hydroxy-1-naphthylazo)benzenesulphonic acid], 3B107
magon I [1-(2-hydroxyphenylazo)-3-(2,4-xylylcarbamoyl)-2-naphthol], 2B46
3-(mercaptoacetamido)phenol, 3B21
2-mercaptobenzimidazole, 5B274
2-mercaptobenzoxazole, 5B274
2-mercaptobenzothiazole, 5B274
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5-mercapto-3-phenyl-1,3,4-thiadiazoline-2-thione, 5B188
5-mercapto-3-(2-pyridyl)-1,3,4-thiadiazoline-2-thione, 5B164
8-mercaptoquinoline, 1A7, 2B59, 5B3
4-(6-methoxy-3-methylbenzothiazolin-2-ylazo)-*N*-methyldiphenylamine, 4B15
4-methoxyphenylpyruvic acid, 4B44
4-methoxy-2-(2-thiazolylazo)phenol, 5B251
2-methoxy-*N*-*m*-tolylbenzohydroxamic acid, 6B67
N-methylanabasine-α′-azo-cresol {2-[5-(1-methyl-2-piperidyl)-2-pyridylazo]-*p*-cresol}, 1B188
N-methylanabasine-α′-azo-3,4-dimethylphenol {2-[3-(1-methyl-2-piperidyl)-2-pyridylazo]-3,4-xylenol}, 4B156
N-methylanabasine-α′-azo-β-naphthol {1-[3-(1-methyl-2-piperidyl)-2-pyridylazo]-2-naphthol}, 6B57
N-methylanabasine-azo-resorcinol {4-[3-(1-methyl-2-piperidyl)-2-pyridylazo]resorcinol}, 6B57
3-methylbenzothiazolin-2-one hydrazone, 1C20
4,4′-(4-methylbenzylidene)bis-(*NN*-dimethylaniline), 4B177
3-methylcatechol, 2B152
4-methyl-4′,4″-diaminotriphenylmethane [4,4′-(4-methylbenzylidene)bis-(*NN*-dimethylaniline)], 4B177
4,4′-methylenebis-(2-benzyl-3-methyl-1-phenylpyrazolin-5-one), 3B79
4,4′-methylenebis-(1,5-dimethyl-2-phenylpyrazoline-3-thione), 4B13
1,1′-methylenebis-(4-ethyl-3,5-dipropylpyrazole), 6B43
9,9′-[5,5′-methylenebis-(2-hydroxyphenyl)]bis-(2,6,7-trihydroxyxanthen-3-one), 4B171
5,5′-methylenebis(salicylfluorone) {9,9′-[5,5′-methylenebis-(2-hydroxyphenyl)]bis-(2,6,7-trihydroxyxanthen-3-one)}, 4B171
NN′-(methylenedi-*p*-phenylene)bis(glycine), 4A7
4,4′,4″-methylidynetris-(*NN*-dimethylaniline), 4B177
2-[5-(1-methyl-2-piperidyl)-2-pyridylazo]-*p*-cresol, 1B188
1-[3-(1-methyl-2-piperidyl)-2-pyridylazo]-2-naphthol, 6B57
4-[3-(1-methyl-2-piperidyl)-2-pyridylazo]resorcinol, 6B57
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naphthalene-1,8-diol, 1B199
1,2-naphthaquinone-6-sulphonic acid dioxime, 6B125
naphthylbismuthiol [5-mercapto-3-(2-naphthyl)-1,3,4-thiadiazoline-2-thione], 2B167, 2B226
nitchromazo [nitrosulphonazo III; 3,6-bis-(4-nitro-2-sulphophenylazo)chromotropic acid], 5H53
nitrilotris(methylphosphonic acid), 3B41
nitromagneson [2-hydroxy-3-(2-hydroxy-1-naphthylazo)-5-nitrobenzenesulphonic acid], 4B76
o-nitrophenylfluorone [2,6,7-trihydroxy-9-(2-nitrophenyl)-3*H*-xanthen-3-one], 5B174
nitrosulphonazo III [nitchromazo; 3,6-bis-(4-nitro-2-sulphophenylazo)chromotropic acid], 5H53
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3-nitro-*N*-*m*-tolylbenzohydroxamic acid, 4B89
nitroxaminazo [4-amino-3-(2-hydroxy-5-nitro-3-sulphophenylazo)naphthalene-2,7-disulphonic acid], 3B165
orthanilic B [3-phenylazo)-6-(2-sulphophenylazo)-chromotropic acid], 1B78
oxyquinolinethiazo [4,5,6,7-tetrahydro-2-(8-hydroxyquinolin-5-ylazo)benzothiazole], 5B249
phenothiazine, 6B136
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3-(phenylazo)-6-(2-sulphophenylazo)chromotropic acid, 1B78
N-phenylcinnamohydroxamic acid, 1B18, 2B130, 5B99
9,9′-*p*-phenylenedifluorone, 4B75
4-phenylphenol, 6B97
6-phenyl-1,2,4-triazine-3-thione, 5B76
phthalaldehyde bisthiosemicarbazone, 4B219
phthalimide bis(thiosemicarbazone), 1B203
picramine-epsilon [8-hydroxy-7-(2-hydroxy-3,5-dinitrophenylazo)naphthalene-1,6-disulphonic acid], 3H26
pinaverdol {1,6-dimethyl-2-[1-methyl-4(1*H*)-quinolylidenemethyl]quinolinium iodide}, 4B223
piperidine-1-carbodithioic acid Na salt, 2B75
promazine hydrochloride, 1B197
purpurin (1,2,4-trihydroxyanthraquinone), 2B118
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4-(2-pyridylazo)-*m*-phenylenediamine, 5B244
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4,5,6,7-tetrahydro-2-(8-hydroxyquinolin-5-ylazo)-benzothiazole, 5B249
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tetrakis(acetoxymercuri)fluorescein, 4B150
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thiophen-2-aldehyde 2-benzothiazolylhydrazone, 2B35
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2,6,7-trihydroxy-9-(2-nitrophenyl)-3*H*-xanthen-3-one, 5B174
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[tris(hydroxymethyl)methyl]dithiocarbamic acid K salt, 1B53, 5B11, 5B144
uramildiacetic [(hexahydro-2,4,6-trioxopyrimidin-5-yl)iminodiacetic] acid, 1A6, 5B37
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